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a patterned retarder layer on said polarizer, said retarder layer including a plurality of first areas cells for separating light passed through said polarizer into a left-eye picture and a plurality of second areas cells for separating light passed through said polarizer into a right-eye picture; wherein said plurality of first cells areas and said plurality of second cells areas are patterned in accordance with said predetermined pattern of said left-eye and right-eye modulated light.

Please ADD new claim 31 as follows:

A7
31 (NEW). The polarized stereoscopic display apparatus according to claim 1, wherein the retarder layer and the transparent substrate form an integral assembly with the polarizer.

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the subject application. The Non-Final Office Action of February 13, 2003 has been received and contents carefully reviewed.

By this amendment, Applicant hereby amends the specification and claims 1, 2, 11, 12, 17, 19, and 23, and adds new claim 31. Applicant respectfully submits no new matter has been entered by the aforementioned amendment.

The Examiner objected to the specification and claims 11-22 due to typographical informalities; rejected claims 1-3, 8-12, 17, 18, 23, 24, 27, 29, and 30 under 35 U.S.C. § 102(b) as being anticipated by Franklin et al. (European Patent Application Publication No. 0 477 882 A2); rejected claims 1-8 and 23-29 under 35 U.S.C. § 102(b) as being anticipated by Moseley et al. (U.S. Pat. No. 6,046,849); and rejected claims 4-7, 13-16, 19-22, and 28 under 35 U.S.C. §

103(a) as being unpatentable over Franklin et al. in view of Moseley et al. These rejections and objections are traversed and reconsideration of the claims is respectfully requested in view of the following amendments and remarks.

The Examiner objected to paragraph [0039] as containing typographical informalities. Applicant respectfully submits that the aforementioned objections to the specification are moot in view of the foregoing amendments to the specification.

The Examiner objected to claims 11-22 as containing typographical informalities. Applicant respectfully submits that the aforementioned objections to the claims are moot in view of the foregoing amendments to claims 11, 17, and 19.

The rejections of claims 1-3, 8-12, 17, 18, 23, 24, 27, 29, and 30 under 35 U.S.C. § 102(b) as being anticipated by Franklin et al. and of claims 1-8 and 23-29 under 35 U.S.C. § 102(b) as being anticipated by Moseley et al. are respectfully traversed and reconsideration is requested.

Claim 1 is allowable over the cited references in that claim 1 recites a combination of elements including, at least “a polarizer...; a transparent substrate on the polarizer; and a patterned retarder layer for separating light polarization passes through the polarizer and the transparent substrate...” None of the cited references, including Franklin et al. or Moseley et al., singly or in combination, teaches or suggests at least these features of the claimed invention. Accordingly, Applicants respectfully submit that claims 1 and 2-10 and 31, which depend from claim 1, are allowable over the cited references.

Claim 11 is allowable over the cited references in that claim 11 recites a combination of elements including, for example “a retarder layer on a transparent substrate formed from wave guide material, the retarder layer for polarizing light and modulating light polarized by the polarizer... wherein said transparent substrate is adhered to the polarizer.” None of the cited

references, including Franklin et al. or Moseley et al., singly or in combination, teaches or suggests at least these features of the claimed invention. Accordingly, Applicants respectfully submit that claims 11 and 12-16, which depend from claim 11, are allowable over the cited references.

Claim 17 is allowable over the cited references in that claim 17 recites a combination of elements including, for example “preparing a polarizer and a transparent substrate made from wave guide material; forming a retarder layer on the transparent substrate...; and adhering the transparent substrate on the polarizer.” None of the cited references, including Franklin et al. or Moseley et al., singly or in combination, teaches or suggests at least these features of the claimed invention. Accordingly, Applicants respectfully submit that claims 17 and 18-22, which depend from claim 17, are allowable over the cited references.

Claim 23 is allowable over the cited references in that claim 23 recites a combination of elements including, for example “a polarizer for passing a portion of said modulated light from said liquid crystal display panel...; a transparent substrate on the polarizer; and a patterned retarder layer on said polarizer, a patterned retarder layer on said polarizer...” None of the cited references, including Franklin et al. or Moseley et al., singly or in combination, teaches or suggests at least these features of the claimed invention. Accordingly, Applicants respectfully submit that claims 17 and 18-22, which depend from claim 17, are allowable over the cited references.

Further, and with respect to the rejection of claims 11 and 17, the Examiner cites Franklin et al. as disclosing “...wherein the transparent substrate is adhered to the polarizer (fig. 7)...” and identifies the transparent substrate that is made out of wave guide material as being designated by reference numeral 62 in Figure 3 of Franklin et al.

Applicant respectfully submits, however, Figure 3 of Franklin et al. is silent as to any teaching or suggestion leading one of ordinary skill in the art to conclude that the material designated by reference numeral 62 is adhered to any polarization film. Moreover, Applicant respectfully submits Franklin et al., in its entirety, is silent as to any teaching or suggestion leading one of ordinary skill in the art to conclude that the material designated by reference numeral 62 is adhered to any polarization film. Accordingly, Applicants respectfully submit Franklin et al. fails to disclose at least the aforementioned combination of elements.

The rejection of claims 4-7, 13-16, 19-22, and 28 under 35 U.S.C. § 103(a) as being unpatentable over Franklin et al. in view of Moseley et al. is respectfully traversed and reconsideration is requested.

Claims 4-7 include all of the limitations of claim 1 and claim 28 includes all the limitations of claim 23, as discussed above, and Franklin et al. fails to teach or suggest at least these features of the aforementioned independent claims as recited above. Similarly Moseley et al. fails to cure the deficiencies of Franklin et al. Accordingly, Applicant respectfully submits that the Examiner has not established a *prima facie* case of obviousness regarding claims 4-7 and 28 in view of claims 1 and 23, as above.

Claims 13-16 and 19-22 include all the limitations of claims 11 and 17, respectively, as discussed above, and Franklin et al. fails to teach or suggest at least these features of the aforementioned independent claims as recited above. Similarly Moseley et al. fails to cure the deficiencies of Franklin et al. Accordingly, Applicant respectfully submits that the Examiner has not established a *prima facie* case of obviousness regarding claims 13-16 and 19-22 in view of claims 11 and 17, as above.

Applicants believe the foregoing amendments place the application in condition for allowance and early, favorable action is respectfully solicited. Should the Examiner deem that a

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telephone conference would further the prosecution of this application, the Examiner is invited to call the undersigned attorney at (202) 496-7500.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136. Please credit any overpayment to deposit Account No. 50-0911.

Respectfully submitted,

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MARKED UP VERSION OF THE AMENDED SPECIFICATION

Please delete paragraph [0039] and replace with the following:

--[0039] Another manufacturing approach is to form the wave guide material substrate 42 and the retarder layer 44 on the polarizer unit 40, directly, as shown in Fig. [12] 11D.--

MARKED UP VERSION OF THE AMENDED CLAIMS

1 (AMENDED). A polarizer stereoscopic display apparatus, comprising:
a liquid crystal display panel for producing modulated light in accordance with signal data having left-eye and right-eye image information;
a polarizer for passing a portion of the modulated light from the liquid crystal display, wherein the passed portion of modulated light has a predetermined polarization; [and]
a transparent substrate on the polarizer; and
a patterned retarder layer for separating light polarization passes through the polarizer and the transparent substrate into a left-eye picture and a right-eye picture, with the separation performed in accordance with the pattern of the retarder layer.

2 (AMENDED). The polarized stereoscopic display apparatus according to claim 1, wherein [the retarder layer is formed on a] the transparent substrate is made from a solvent-proof polymer.

11 (AMENDED). A polarized stereoscopic display apparatus, comprising:
a polarizer; and
a retarder layer on a transparent substrate formed from wave guide material, the retarder layer for polarizing light and modulating polarization from the [(transparent substrate and the)] polarizer to separately produce a left-eye picture and a right-eye picture, wherein said transparent substrate is adhered to the polarizer.

12 (AMENDED). The polarized stereoscopic display apparatus according to claim 11, wherein said transparent substrate [is made from wave guide material and] contains solvent-proof polymer.

17 (AMENDED). A method of manufacturing a polarized stereoscopic display device, comprising the steps of:

preparing a polarizer and a transparent substrate made from wave guide material (WGM);

forming a retarder layer on the transparent substrate such that the retarder layer includes a plurality of first cell areas for transmitting light for a left-eye picture and a plurality of second cell areas for transmitting light for a right-eye picture; and

adhering the transparent substrate and retarder layer on the polarizer.

19 (AMENDED). The method of manufacturing the polarized stereoscopic display device according to claim 17, wherein the retarder layer contains a chiral material that [(]permits light modulation.

23 (AMENDED). A polarized stereoscopic display apparatus, comprising:

a liquid crystal display panel for producing modulated light in accordance with signal data, wherein said signal data produces left-eye and right-eye modulated light in a predetermined pattern;

a polarizer for passing a portion of said modulated light from said liquid crystal display panel, wherein said passed portion of modulated light has a predetermined polarization; [and]

a transparent substrate on the polarizer; and

a patterned retarder layer on said polarizer, said retarder layer including a plurality of first areas cells for separating light passed through said polarizer into a left-eye picture and a plurality of second areas cells for separating light passed through said polarizer into a right-eye picture;

wherein said plurality of first cells areas and said plurality of second cells areas are patterned in accordance with said predetermined pattern of said left-eye and right-eye modulated light.